



Puget Sound Research 2001

**The Puget Sound/Georgia Basin Ecosystem:
Status, stressors and the road to recovery**

Presenters' Biographies

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Skip Albertson received a BS degree from RPI, a MS degree from UC-Berkeley in Engineering, and an MS degree from UW in oceanography. He has worked at Brookhaven and Livermore National Laboratories, for General Electric and Transamerica Corp. His research interests are focused on applications of physical oceanography, fluid mechanics and engineering to real-world environmental problems in estuaries. He is a member of AGU.

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Roland C. Anderson, Ph.D. has worked at the Seattle Aquarium for 23 years. He specializes on the behavior of mollusks and other invertebrates. He is a past president of the Western Society of Malacologists and is currently secretary of the American Malacological Society. He has published numerous papers on the behavior of octopuses and squid.

Liam Antrim

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Liam Antrim works at the Olympic Coast National Marine Sanctuary office in Port Angeles, WA, as a Resource Protection Specialist, tasked with leading the effort to develop a proposal for marine zoning in the Sanctuary. He has a B.A. in Biology from Bates College in Maine and a M.S. in Biology/Environmental Studies from Western Washington University in Bellingham. In earlier phases of his life, Liam has worked as an aquatic toxicologist, scientific diving officer, wildlife biologist, and sailing instructor. As a private consultant for 13 years at Battelle Marine Sciences Laboratory, he chased after sea surface microlayer, sampled biota and substrates, surveyed nearshore marine resources, and worked to restore eelgrass.

Marta Assunção

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Academic qualifications: First degree (4 years: 1992-96) in Biology -specialization in Ecology and Zoological Resources, in the Faculty of Sciences of the University of Porto (UP), Portugal.

Post-Graduation: Finished the taught part (1st year) of the MS. degree in Marine Sciences - Aquatic Resources (two-year degree) in the Abel Salazar Institute of Biomedical Sciences, UP. Currently developing a research project at Institute of Ocean sciences, Sidney, B.C., Canada, under supervision of Peter Ross, PhD.

Areas of research interest: Environmental toxicology.

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Allison Bailey has over ten years experience studying marine and estuarine habitats in Puget Sound and the West Coast. Her educational background is in biology, marine ecology, remote sensing and geographic information systems (GIS). She currently works as a GIS Analyst for National Marine Fisheries Service, developing a GIS of West Coast groundfish habitat and identifying critical fish habitat. Previously, she worked on the Puget Sound Nearshore Habitat Inventory as a scientist for the Washington State Department of Natural Resources.

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Gregory Baker is an ecologist with the National Oceanic and Atmospheric Administration. His work focuses on natural resource damage assessment, evaluating injuries to resources caused by oil spills and hazardous substance releases. Prior to coming to NOAA in 1998, he spent 17 years with the San Francisco Regional Office of the U.S. Environmental Protection Agency. He earned a BA in Biology from the University of California, San Diego, and an MS in Environmental Management from the University of San Francisco.

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Greg has undergraduate degree from the University of California at Davis and a master's degree in fisheries from the University of Washington. He has worked as a research biologist for the National Marine Fisheries Service and taught at the Community College level. Since 1974, Greg has been employed by the Washington State Department of Fish and Wildlife in a variety of positions, most of which dealt with management of marine fish.

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Walter Barnhardt is a geologist at the Coastal and Marine Geology Program of the U.S. Geological Survey. His research focuses on the geomorphology and sedimentology of estuaries and nearshore marine environments, and emphasizes a multidisciplinary approach to a wide range of geologic and biologic issues. He earned a MS and PhD in geological sciences from the University of Maine, and has worked on seafloor mapping projects in the Pacific Northwest, Hawaii, and New England.

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Helen Berry is a coastal ecologist with the Nearshore Habitat Program in the Washington State Department of Natural Resources. She has an MS in Oceanography from Oregon State University. She researches spatial patterns and temporal trends in nearshore habitat for the Puget Sound Ambient Monitoring Program.

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Ann Boeholt

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Ann has been employed with the Washington State Department of Ecology, as a Wetland Specialist, since 1990. In 1997, she entered the University of Washington's School of Aquatic and Fisheries Science's Masters degree program. A greater knowledge of the role of invertebrates in wetland processes and of the physical factors affecting wetland invertebrate communities will contribute to Ann's effectiveness in protecting freshwater and estuarine wetlands within the Puget Sound Basin.

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Betty Bookheim is a Natural Resource Scientist with the Nearshore Habitat Program in Washington State Department of Natural Resources. She has a degree in Environmental Studies from Alfred University, New York. She has worked in marine nearshore habitat monitoring and protection in the Atlantic, and tropical and temperate Pacific oceans. At DNR, she maps and researches spatial patterns in Puget Sound nearshore habitats.

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Ms. Amy Borde specializes in wetland ecology and restoration. Recent research has included assessment of eelgrass meadows in Puget Sound and Northwest coastal estuaries; the development of methods for propagating and transplanting seagrass; the assessment of areas proposed for mitigation; and the use of underwater videography and side-scan sonar for mapping the extent of eelgrass meadows.

Julia K. Bos

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Julia K. Bos is currently employed by the Washington State Dept. of Ecology in the Marine Waters Monitoring Group. She received her B.S. in Chemical Oceanography from the University of Washington.

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Mr. Brennan graduated with a Master of Sciences in Marine Sciences Degree from Moss Landing Marine Laboratories, CA. While working as a research associate at MLML, participated in fisheries research programs in Antarctica, California, Oregon, Washington, and Alaska. Teaching experience includes fish biology, marine ecology, desert ecology, and tropical marine biology at various institutions and locations including, field studies programs in Jamaica and Baja California, Mexico; U.C. Santa Cruz and MLML in California. Other experience includes environmental consulting; Project Leader, marine mammal observer program, lower Columbia R.; Habitat manager, west Puget Sound. Member: Estuarine Research Federation, Pacific Estuarine Research Society, American Fisheries Society. Current Research Interests: Puget Sound nearshore ecosystem assessment, salmonid factors of decline.

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Lyle Britt is currently a Master's candidate at the University of Washington, School of Aquatic and Fisheries Sciences. He also is employed by the National Marine Fisheries Service, Alaska Fisheries Science Center, as a fishery research biologist. His research interests have focused primarily on the study of the early life history and sensory ecology of larval fishes, with particular interest in its relationship to larval survival and recruitment.

Dr. Kenn Brooks

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Dr. Brooks holds a doctorate from the University of Washington. His doctoral thesis examined the genetic implications of disease resistance in marine mussels. Over the last ten years, his research has focused on understanding the environmental risks associated with human activities with emphasis on the intensive culture of fish and shellfish. Since 1991, he has completed all required environmental monitoring at seven of the ten permitted commercial salmon farms in Washington State and at all of the Washington State Department of Fish and Wildlife's netpens in Puget Sound. In addition, Dr. Brooks monitors environmental conditions at 35 salmon farms throughout British Columbia and is part of a team developing British Columbia's salmon aquaculture waste management program. He has conducted several multi-year intensive studies describing the environmental response to intensive fish and shellfish culture in British Columbia, Alaska and Washington State for the US EPA, Washington State Department of Fish and Wildlife and the Exxon Valdez Trustees.

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John Calambokidis is a Research Biologist for Cascadia Research, a non-profit research organization he helped found in 1979. He also periodically serves as an Adjunct Faculty member at the Evergreen State. Primary interests have been the biology of marine mammals and human impacts on this diverse group. He has authored two books

on marine mammals (Guide to Marine Mammals of Greater Puget Sound and Blue Whales) as well as more than 50 technical reports and publications in scientific journals.

Douglas J. Canning

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Douglas Canning is a senior planner and environmental scientist with the Shorelands and Environmental Assistance Program, Washington State Department of Ecology, principally in the area of coastal zone management. In recent years he has worked with an interagency salmon recovery guidelines workgroup, and with the Grays Harbor Estuary Management Plan Task Force. Previous major projects carried out at Ecology have included special area management planning; comprehensive resource planning for the Nisqually River basin; flood control management planning for the Skokomish River; the public trust doctrine; sea level rise response, and the Coastal Erosion Management Study for Puget Sound.

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Dr. Glenn A. Cannon is Affiliate Professor of Oceanography at the UW and is proprietor of Puget Sound Environmental Consultants. He retired from PMEL/NOAA in 1998 where he had initiated the current measurement program in Puget Sound that led to a large part of the existing data base. He and his colleagues have published numerous papers on Puget Sound.

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Andrew Chiodi is starting his third year in graduate studies in physical oceanography at the University of Washington's School of Oceanography. Charles C. Eriksen is his advisor.

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Michael Cochran is a Biological Researcher for the Northwest Indian College for the last three years. Before that he was the Shellfish Biologist for Lummi Nation for 14 years. He has a Masters Degree in Environmental Science and has been working on water quality issues in the Nooksack Watershed, Portage Bay and North Puget Sound since 1986.

James E. Coleman

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James E. Coleman is currently studying at the University of Washington to obtain his masters degree in oceanography. A graduate of the U.S. Naval Academy and a Naval Officer, Mr. Coleman has conducted research in the optical variability of aquatic environments for several years, and hopes to aid in the development of sensory technologies and monitoring capabilities both inside and outside the Navy.

T.K. Collier

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Tracy Collier is the Program Manager for the Ecotoxicology and Environmental Fish Health program at the NMFS Montlake laboratory, and has worked for NMFS since 1972. He received his Ph.D. from the University of Washington College of Fisheries in 1988. His research interests over the years have covered some of the first work on metabolism of PAHs by fish, studies of the impacts of oil spills on marine fish, the enzymology of carcinogen activation and detoxication, and assessing overall effects of contaminants on fish populations through the use of field investigations.

Frank Cox

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Frank Cox graduated in 1969 from California State Polytechnic University with a Bachelor of Science degree in Biology. After graduation, Mr. Cox spent six years in

the United States Army as a Petroleum Officer. Mr. Cox was stationed in Germany and South Vietnam. In 1978 Mr. Cox joined the Department of Social and Health Services, Office of Shellfish Programs. Mr. Cox remained working in the Shellfish Programs, Washington State Department of Health, when it separated from DSHS. M. Cox has worked in all areas of the Shellfish Programs and is currently the Biotoxin Program Lead.

Donna L. Cullon

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Ms. Cullon completed her B.Sc. at the University of Victoria in 1993. After spending several years working in plant genetic and medical laboratories, she went on to complete her M.Sc. in Environment and Management at Royal Roads University in 2000. Her M.Sc. thesis project, also sponsored by the Institute of Ocean Sciences, focused on the endocrine-disrupting effects of organotins on invertebrates. This project marks the beginning of her doctoral work where she will examine food chain accumulations of persistent organic pollutants (POPs) in marine mammals by examining specific biomarkers and building on existing tools such as stable isotope ratios, fatty acid signature analyses, congener-specific analyses, and multivariate statistical techniques.

Brad Davidson

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Mr. Davidson is an environmental scientist at the Space and Naval Warfare System Center (SSC) in San Diego, CA. He received a BS degree in biological oceanography from Humboldt State University in California. For the past 15 years he has been involved in a variety of marine environmental projects for the Navy assessing effects of sediment contamination, effluent toxicity, and ship antifouling hull coating toxicity in Navy harbors and bays. He has performed lab and *in situ* bioassays as well as coordinate field surveys. His interests and capabilities are broad within marine environmental assessment technologies. Before coming to the Navy, worked for Computer Sciences Corp., Kinetic Laboratories and Lockheed Center for Marine Research.

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Chris is a principal at CommEn Space, a Seattle-based non-profit group that conducts GIS and landscape analysis for community and environmental organizations. Chris worked on environmental and community development issues in Russia for six years prior to founding CommEn Space where he currently focuses on salmon recovery and restoration planning among other conservation issues. He holds an MA in geography from the University of Washington.

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Tom is the Habitat Restoration Coordinator for People for Puget Sound, and has been organizing estuarine habitat restoration projects for more than five years. Mr. Dean has organized numerous successful projects on the Tulalip Reservation, the Swinomish Reservation and along the Duwamish and Puyallup estuaries. He holds a BA in English from the University of Oregon and currently serves as the President of the Vashon Island Land Trust.

Tad M. Deshler

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Tad Deshler is an environmental scientist who has spent the last 11 years in consulting. He recently formed his own consulting firm with several other partners. Tad received a Bachelor's degree in Aquatic Biology from UC Santa Barbara and a Master's degree in Aquaculture from UC Davis. His research interests include sediment and water quality assessment, human health risk assessment, and Natural Resource Damage Assessment.

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Tim Determan holds a BS degree in biological oceanography from the University of Washington, and did graduate work at the University of Guam. Past experience includes performance of water quality investigations with emphasis on nonpoint pollution. He has been a technical specialist to local and state agencies on nonpoint pollution impacts to shellfish resources. At present he performs trend analyses at the Washington State

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Megan Dethier obtained a BA from Carleton College and a PhD from the University of Washington. She is in residence at the UW's Friday Harbor Labs, where she teaches and does research. Current interests include the effects of stress on energy allocation patterns in intertidal algae; the linkage between intertidal communities and the physical features of their habitats, and the effects of invasive *Spartina anglica* on north-central Puget Sound salt marsh and mudflat communities.

Paul Dinnel

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Paul Dinnel, Ph.D. – Education
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Career - marine ecology and toxicology; Research Scientist (18 years) with Fisheries Research Institute, University of Washington. Currently - Principal Scientist and owner of Dinnel Marine Resources, Anacortes, WA; Visiting Scientist, Shannon Point Marine Center, Western Washington University. Affiliations - Board of Directors, Padilla Bay Foundation; appointee, Skagit County Marine Resources Committee.

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Dan Doty is a Fish and Wildlife Biologist and Natural Resource Damage Assessment Coordinator for the WDFW Spill Team. He specializes in natural resource damage assessment and restoration issues. He has a Masters of Science Degree in Fisheries from the University of Washington. His primary research interests focus on ecology of organisms in marine nearshore habitats.

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Brett is a fisheries research scientist with the Washington State Department of Fish and Wildlife and is currently in charge of operations at the Willapa Bay Field Station in Nahcotta. He lives with his wife and two children in Ocean Park. Brett has a Ph.D. from the University of Washington, School of Fisheries where he studied the problem that oyster-growers experience with burrowing shrimp in Willapa Bay. Activities at the field station currently include managing the state's Willapa Bay oyster reserves, research and policy guidance on coastal estuarine habitat issues and coastal estuarine monitoring programs, recreational shellfish harvest management in Willapa Bay, assistance with the Long Beach razor clam fishery, and public outreach at the Nahcotta Tidelands Interpretive Site.

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John Dunne is a postdoctoral research associate at the University of Washington, School of Oceanography developing a moored profiler to monitor water quality in South Puget Sound. He has a B.S. (1993) in Chemistry from the University of California at San Diego and a M.S. (1996) and Ph.D. (1999) in Oceanography from the University of Washington. His dissertation work centered on measuring and modeling particle export in the equatorial and coastal oceans.

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Margaret Dutch is the supervisor for the Washington State Department of Ecology's Marine Monitoring Unit, and member of the unit's Marine Sediment Monitoring Team (MSMT). She and the MSMT are responsible for conducting the Sediment Monitoring Component of the Puget Sound Ambient Monitoring Program (PSAMP). Prior to working for Ecology, Ms Dutch worked as an invertebrate taxonomist and benthic ecologist participating in marine sediment monitoring projects in New England, Hawaii, and San Francisco.

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Charles received his master's degree in marine ecology from the Department of Zoology at the University of Washington. He studied at Friday Harbor Laboratories, and lived on the San Juan Island for 13 years---teaching marine biology and working as a marine technologist at Friday Harbor Labs. In 1977 he started his own consulting business, Bio-Marine Enterprises, and in 1980 launched his research vessel, *Kittiwake*. Charles is presently an active member of the Biocriteria/Bioassessment Workgroup of EPA and is continuing the development of biocriteria assessment methods with WDOE through funding from EPA headquarters.

Jim Ebbert

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Jim Ebbert, U.S. Geological Survey retired, was project chief of the Puget Sound Basin National Water-Quality Assessment (NAWQA) study from 1997 through 2000. He has conducted numerous water-quality studies during his career with the USGS, which began in 1973. He now works part-time on studies for the USGS.

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Dr. Kathleen Edwards is a Research Associate at the University of Washington School of Oceanography. Her

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Eric Eisenhardt is a Master's candidate at the University of Washington's School of Aquatic and Fishery Sciences (UW-SAFS). He is interested in *in situ* studies of marine fish ecology. He is based at Friday Harbor Laboratories in the San Juan Archipelago of Washington State. Dr. Bruce S. Miller (UW-SAFS) is the Chairperson of his Supervisory Committee, which is also comprised of Dr. Vincent F. Gallucci (UW-SAFS) and Dr. Lawrence L. Moulton (MJM Research).

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Joseph Evenson is a biologist with Washington State Department of Fish & Wildlife for the marine bird and mammal component of PSAMP. He received his B.S. from the Evergreen State College in 1989. He worked as a research biologist with Cascadia Research 1989-95, with an emphasis on marine mammals. Since 1994 he has served in his current position with WDFW, where he has been involved with, and/or coordinated, monitoring studies on marine birds and mammals.

Zach Ferdana

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Zach Ferdaña is a GIS Analyst at The Nature Conservancy of Washington. He received his degree in Environmental Studies at The Evergreen State College in Olympia, with concentration in Landscape Ecology and Marine Mammal Biology. He began his GIS career with People for Puget Sound, constructing spatial databases of the marine and nearshore environments for their conservation and restoration projects. With The Nature

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David Finlayson is studying for his Masters of Science in Geology with a special interest in topographic landscape analysis. He is developing an erosion index for the Himalayas, studying the effects of continent-scale projections on GIS analyses, and developing methods for analyzing high resolution digital topography. David is a native of Seattle and hopes to contribute to the long-term stewardship of the Northwest.

David Fluharty

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Dave Fluharty is an associate professor at the School of Marine Affairs, University of Washington. He earned his Ph.D. in Natural Resource Conservation and Planning from the University of Michigan [1977]. Dave served as co-chair of the original "citizens" Puget Sound Water Quality Authority and later was chair of the Institutions Committee of the "real" Authority. Recently, he has been engaged as a member of the Murray-Metcalf Northwest Straits Citizen Advisory Committee. Dave also served on the National Academy of Sciences, National Research Council Study Committee on Marine Protected Areas and Reserves in the United States. He currently teaches a course on Marine Protected Area Management and co-teaches a Bottomfish Recovery Research Apprenticeship Course at Friday Harbor Laboratory

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Melinda Fohn holds a B.S. in Bacteriology and Public Health from Washington State University. She has held the position of Environmental Technician at the City of Bremerton for 6 years. There she has initiated the combined sewer overflow, stormwater and stream water quality monitoring programs. Ms. Fohn has been active in local watershed projects contributing in both the technical and community/public education arenas.

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Steven Fradkin is the Coastal Ecologist for Olympic National Park. He received his M.S (Michigan State University) and Ph.D. (Dartmouth College) in aquatic ecology, and conducted post-doctoral work in marine ecology at the University of Oregon's Institute of Marine Biology. His research interests include the role of life-history and environmental influences on population and community dynamics in intertidal, stream, and lake systems.

Robert Francis

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Dr. Francis conducts research in the area of fishery oceanography, climate and fisheries, and the structure and dynamics of exploited marine ecosystems.

Kurt L. Fresh

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Kurt Fresh is a senior fish scientist in the Science Division of the Washington State Department of Fish and Wildlife where he has worked since 1979. He has worked extensively on issues involving the ecology of juvenile salmon in streams, lakes, and the estuarine and marine waters of Puget Sound and the Washington coast. For much of the last 10 years, he has been involved in recovery of depressed salmon populations in Puget Sound, particularly in the Lake Washington Watershed.

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Brent Moore is a water quality biologist with the Ministry of Environment, Lands and Parks' Pollution Prevention Program in their Lower Mainland Regional Office. Over the last 25 years, he has conducted water quality studies

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Steven W. Morrison has been with Thurston Regional Planning Council for 18 years. As a Senior Planner he has lead a broad range of environmental projects to map wetlands, prepare Critical Area Ordinances, staff Watershed Action Plans, design an Agricultural Purchase of Development Rights program, and now document the rapidly changing marine shoreline in Thurston County. Steven has a B.S. in Environmental Planning from Huxley College at WWU and received a Master in Public Administration from The Evergreen State College where he has taught as an adjunct faculty. Steven has also been awarded four Merit and one Honor awards from the Washington State Chapters of APA & PAW for his planning activities.

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Lizzy Mos is a graduate student of Wageningen University, The Netherlands who is currently working on seal ecotoxicology at the Institute of Ocean Sciences, Canada under supervision of Peter S. Ross. Her main research interest consists of the subtle interactions between natural physiology and toxic compounds, especially in marine mammals. She will defend her M.Sc. thesis in June 2001.

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Dr. Mumford received his BA from Wabash College in 1966 and his PhD in Botany from the University of Washington on 1972. He spent three years at the University of British Columbia on a postdoctoral fellowship before joining the Washington State Department of Natural Resources in 1976. He spent several years researching the cultivation of seaweeds for the production of phycocolloids and food. His interests now include the biology and management of seaweeds and seagrasses, and the inventory and monitoring of marine and estuarine habitats. He is a member of AAAS, Ecological Society of America, and the Phycological Society of America. He has taught in various universities and consulted overseas in seaweed aquaculture.

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Ms. Nanda is currently pursuing a Masters of Marine Affairs at the University of Washington. She earned a B.A. as an Individualized Major in Ecology and a certificate major from the Liberal Arts and Management Program at Indiana University. She intends to combine her educational studies to date in pursuit of sustainable designs for coastal societies, as she believes that marine conservation can occur alongside and with little disruption to human economic and recreational activities.

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Jan Newton is a Senior Oceanographer at the Washington State Dept of Ecology and an Affiliate Assistant Professor at the University of Washington, School of Oceanography. A biological oceanographer, she has focused on the phytoplankton productivity of marine systems and, especially, the role of human and climate stressors in affecting production. She evaluates data from Puget Sound, Willapa Bay, and Grays Harbor for Ecology's assessments of marine water quality.

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Ms. Nichol holds a M.Sc. in Zoology from the University of British Columbia and has ten years experience as a consultant specializing in coastal biological resources. Joined State of the Environment Reporting with the B.C. Ministry of Environment Lands and Parks in 2000 as research coordinator. Currently involved in the development of coastal ecosystem indicators.

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Donald is a wildlife biologist and toxicologist who has worked on colonial waterbirds for over 15 years. He has presented his work on great blue herons at the 1988 and 1995 Puget Sound Research Conferences. He received his MS in Wildlife Toxicology from Huxley College, and has worked on herons and contaminants in the Elliott Bay and Commencement Bay NRDAs. He is currently Board Chair of Adopt a Beach.

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James Norris holds a BS degree in mathematics (University of California, Davis), a MS Degree in Fisheries (University of Alaska), and a PhD degree in Fisheries (University of Washington). He has been a commercial fisherman since 1974, is president of Sound Vessels, Inc., and is owner of Marine Resources consultants. From 1993-1999, Dr. Norris was employed as a Research consultant at the University of Washington School of Fisheries working on salmon harvesting models. Currently, Dr. Norris is focusing his research efforts on underwater videographic methods for monitoring nearshore marine habitats.

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Ms. Ostergaard received her undergraduate degree from The Evergreen State College in 1989, where she focused on environmental studies. Until 1999 she worked in the private and public sectors in the Pacific Northwest, Colorado and Utah, carrying out a variety of wildlife studies and programs on birds, amphibians, and salmon, as well as wetland, stream, and water quality monitoring activities. Currently she is pursuing a Master's degree in Wildlife Science at the University of Washington, and is most interested in the influence of urban development and stormwater ponds on pond-breeding amphibians.

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Nine years as a Fish and Wildlife Biologist with WDFW, working mainly with Puget Sound bottomfish populations (rockfish and lingcod) and underwater technologies for conducting in situ population assessments. To date I have conducted over 1500 SCUBA dives and 6000+ video assessment transects throughout Puget Sound.

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Wayne Palsson is a senior Fish and Wildlife Biologist for the Washington State Department of Fish and Wildlife and works with groundfish populations in Puget Sound. He has been studying saltwater fishes in Puget Sound for over twenty years. After graduating with a Bachelor of Arts degree in Zoology (U.C. Berkeley) in 1977, he worked for his Master of Science in Fisheries Science at the University of Washington which he received in 1984. Palsson works with groundfish resources in Puget Sound focusing on their assessment, management, and ecology.

He and his co-workers have been examining the response of rockfish, lingcod, and other fishes to no-take refuges and considering how a refuge system could be useful in managing these species.

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Dan Penttila has spent his entire life in the Pacific Northwest, receiving a BS in Zoology from the University of Washington (1970) and an MS in Biology from the University of Oregon (1971). He has been involved with marine forage fish matters for the Washington State Department of Fish and Wildlife from 1972 to present, including herring/surf smelt/sand lance spawning habitat surveys, larval/juvenile/adult surveys, development of habitat protection regulations, and numerous public presentations and informational workshops pertaining to local forage fish spawning ecology.

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Pat's major interests are the volcanic processes and history of the Cascade Range, landslides and debris flows, dendrochronology, environmental history, and earth science education and awareness. He is the author of the book "Roadside Geology of Mount St. Helens National Volcanic Monument and Vicinity", published by the Department. He has authored or coauthored papers in Science, Northwest Science, Geology, Earth Science, and GSA Bulletin, as well as several U.S. Geological Survey Professional Papers. He is a co-coordinator of the Mount Rainier Decade Volcano demonstration project that is part of the United Nations' International Decade of Natural Disaster Reduction, and is currently writing a book with Wendy Gerstel on the roadside geology of Mount Rainier. He was the 1998 MacFarlan Lecturer at the University of Kentucky.

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Thomas Quinn received his undergraduate degree in Biology at Swarthmore College in 1976 and his doctoral degree in Fisheries from the University of Washington in 1981. He worked at the Pacific Biological Station in Nanaimo, B.C. until 1986, when he joined the faculty in the School of Fisheries at the University of Washington. His research interests are in the areas of fish behavior, ecology and evolution, with emphasis on salmon and trout.

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Bev Raymond has worked as an environmental scientist for 25 years for consultants, the Department of Fisheries and Oceans, and Environment Canada. Primary areas of study include estuarine habitat use by juvenile salmonids impacts of contaminants exposure on the health of fish and other aquatic life. She is currently working on Environment Canada's Georgia Basin Ecosystem Initiative on a project to assess the impacts of air quality on forested watersheds.

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Scott Redman is Science Coordinator for the Puget Sound Ambient Monitoring Program. Scott has a bachelor's in chemistry from Whitman College and a master's in environmental science from Indiana University's School of Public and Environmental Affairs. Prior to joining the staff of the Puget Sound Water Quality Action Team, Scott performed investigations of Great Lakes contaminated sediment sites and coordinated Wisconsin's contaminated sediment cleanup program. Scott is a member of the Society of Environmental Toxicology and Chemistry.

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Mindy Roberts earned her bachelor's degree in civil engineering from the University of California, Berkeley and master's degree in civil and oceanographic engineering from the Massachusetts Institute of Technology and Woods Hole Oceanographic Institution. She is a registered professional engineer with over ten years experience in water quality studies and watershed modeling. Currently, she is developing a TMDL for South Prairie Creek in the Puyallup River watershed under the Watershed Studies Unit of the Department of Ecology.

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Dr. Peter S. Ross is a Research Scientist at the Institute of Ocean Sciences (Canadian Department of Fisheries and Oceans). He is Adjunct Professor at Simon Fraser University in Vancouver. He has studied the effects of chemical contamination in marine mammals in Europe, and eastern and western North America. He recently documented the killer whales of B.C. and Washington as the most contaminated marine mammals in the world. He has published over 40 scientific articles in international journals, as well as several book chapters.

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Sandra Salazar is a marine ecologist with over 25 years experience in environmental assessment, including development and application of standard laboratory bioassays, and application of field and laboratory tools in

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Mike is the Director of the North Puget Sound Office of People for Puget Sound and is one of the principle people involved in the Orca Pass project. His experience with the Hawaiian Electric Company includes positions as Senior Communications Representative, Advertising Administrator, and Director. Before his work in Hawaii, Mike served as Public Information Coordinator for both Seattle City Light and the Puget Sound Water Quality Authority.

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Carl Schoch is the science coordinator for the Kachemak Bay Research Reserve in Alaska (a NOAA NERR). He has a Ph.D. in Oceanography from Oregon State University and with research interests in the physical and biological linkages between nearshore and continental shelf ecosystems, specifically how physical processes such as currents, wave energy, sediment dynamics, and nutrient fluxes structure intertidal and subtidal communities. He also serves as science advisor to the Olympic Coast National Marine Sanctuary.

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Amy Sewell received her BA in Biology from Carleton College and her MS in Ecology from San Diego State

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Hugh Shipman is a coastal geologist with the Shorelands and Environmental Assistance Program of the Department of Ecology, specializing in shoreline erosion, coastal natural hazards, and environmental geology. His interests include longshore movement of sediment, beach nourishment, and the ecological impacts of physical shoreline change. Hugh received a B.A. in Earth Sciences and Engineering from Dartmouth College in 1981 and an M.S. in Geological Sciences at the University of Washington in 1986.

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Tom Smayda is an aquatic scientist and civil engineer with a B.S. in biology from Lawrence University and an MSE in civil engineering from the University of Washington. He is on the board of directors of the WA

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John Southard has a strong background in fisheries, wildlife, ecology, and environmental policy and assessment. Mr. Southard has employed different techniques to observe the underwater environment, including snorkeling, diving, video and still cameras, electronic sonar, and other viewing equipment. The MSL Dive Safety Officer, Mr. Southard is an emeritus SCUBA instructor with National Association of Underwater Instructors and Technical Diving International, certified to teach mixed-gas diving to depths of 300 feet.

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Education includes a B.S. (1986) in Biology-Systematics and Ecology from the University of Kansas and a M.S. (1988) in Marine Ecology from the University of Oregon (Oregon Institute of Marine Biology). Current work with the Marine Monitoring and Assessment group at King County includes assisting with the ambient and NPDES sampling programs in marine waters.

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Dr. Ronald Thom has over 25 years of experience in nearshore habitat ecology and restoration. His research includes effects of pollution on nearshore systems; habitat restoration; climate change; and ecology of fisheries resources. Recent work has examined conditions of light, depth, and disturbance on eelgrass. Dr. Thom serves on the King County Nearshore Technical Committee, on the Salmon Recovery Funding Board Technical Advisory Team to prioritize salmon habitat restoration projects, and on the Nearshore PRISM working group.

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Chris is a Research Scientist for Washington State Department of Fish and Wildlife, and Visiting Scholar at The Burke Museum, University of Washington. The common theme in much of his research is an interest in evolution of animal color patterns, especially in the evolution of molting strategies in birds that give rise to different seasonal color patterns among ages and sexes. In addition, his current research for WDFW focuses on the management and conservation of alcids.

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Timothy J. Walsh has been the chief geologist for the Environmental Section of the Washington Division of Geology and Earth Resources, Department of Natural Resources since 1988, and a staff geologist there since 1980. His areas of interest are geologic hazards, regional geology of the Puget Lowlands, and science in public policy. He holds B.S. and M.S degrees in geology from UCLA.

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Jim West earned his Master's Degree from the University of Hawaii in Zoology in 1985, with his research focusing on food webs in coral reef ecosystems. In Hawaii he worked on research projects involving artificial reefs, predator-prey interactions of Hawaiian pelagic fishes, and enhancement of marine fish populations using hatchery-reared fish. Jim moved to Washington in 1990 and has since worked for the Washington State Department of Fish and Wildlife. From 1990 to 1993 he worked on habitat requirements and life history of rockfishes in Puget Sound, focusing on their early life stages. In 1993 he began work on the Puget Sound Ambient Monitoring Program. His most recent efforts have focused on accumulation of contaminants in rockfish, English sole, Pacific salmon and herring in Puget Sound.

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Jacques is the Habitat Program Director at People for Puget Sound and is responsible for coordinating the Habitat Program team and activities. Dr. White holds a Ph.D. in marine, estuarine, and environmental sciences from the University of Maryland, and has held research positions at the Smithsonian Environmental Research Center and the University of Delaware. Dr. White has carried out marine research on all three coasts of the US and taught at the University of Maryland.

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Greg Williams is a fisheries biologist (M.S. University of WA) with a complementary background in nearshore and estuarine ecology and restoration. His research includes tidal wetland restoration, effects of habitat modification on fish assemblages, reef ecology, food web interactions, exotic species introductions, and development of baseline monitoring criteria. Mr. Williams has 10 years experience as a research diver and has conducted numerous underwater surveys and field sampling efforts.

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Marjorie Wonham is currently completing her Ph.D. in marine ecology at the University of Washington. She studies the spread of non-native marine species in the Pacific Northwest, conducting experimental intertidal field work primarily on Tatoosh Island (off Cape Flattery) and Saddlebag Island (in Padilla Bay). Her other interests include marine conservation biology, specifically fisheries management and marine protected areas.

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Dr. Dana Woodruff has over 20 years of experience in coastal marine research on the east coast and Puget Sound. Her background is in coastal remote sensing, developing satellite algorithms to examine water column properties. Recent work has included nearshore mapping

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